

Site/Project Location: MP 125 to 125.5 Spread 7-8

Date of Inspection: 26 September 2016

Inspected roughly 0.5 miles of pipeline ROW approximately 9 miles south of Judson ND in Morton County.

Observed Work / Weather Conditions

On-site 9:45 am to 12:15 pm. Mostly sunny skies/unrestricted visibility. NW wind at 10-15 mph. No precipitation during visit. ROW conditions were dry. Temperature 52-59°F.

Construction activities were shut down during site visit. Pipe was in trench and a majority was backfilled. Many stretches on ROW had topsoil not adequately stripped to required depth. Subsoils were used to grade the ROW over inadequately stripped topsoil grounds. Soil mixing also was observed in these areas.

Top Soil Management / Condition / Erosion Control / Stormwater Management

Topsoil segregation was not adequate for long stretches of ROW inspected. Topography was generally smooth, rolling hill landscape. Topsoil depth was 1-3" in some areas while other areas were as much as 24". Areas of deeper topsoil did not get stripped adequately and had subsoils stacked on top for ROW grading. Landowner used a backhoe to dig in the center of ROW. Keitu inspector observed subsoils over unstripped topsoil containing grass/herbaceous plant roots. Topsoil piles observed contained mostly only 3-5" of stripped native sod grass. Other areas existed where segregated topsoil and subsoil piles were bordering each other. Storm-water BMPs, particularly silt fences, need minor maintenance i.e. re-stapling or replacement due to cattle. Storm-water BMPs overall were properly installed and in good working condition.

Vegetation Condition

No tree were observed removed upon visit.

Depth of Cover / Road Crossings / River Crossings / Riparian Condition at HDD Bore Sites

Open trench areas observed and measured were at specified depth or deeper.

Other Project Issues

Landowner at SW1/4 of Section 4 T137 R89 reported these improper handlings of the topsoil segregation. According to landowner, an onsite mechanic told him stripping/grading crews running slower than tie-in crews. He believes this to be the reason for the improper ROW stripping.

Deficiencies

Long stretches of ROW (100'+) where topsoil was not adequately stripped to required depth. Subsoils were used for grading over these improperly stripped areas. A ROW easement for topsoil storage was not properly stripped and subsoils from trench was stacked/mixed in with the topsoil. Some silt fences needing re-stapling. Debris also should be picked up.

Actions Taken/To Be Taken

Debris left on ROW should be picked up immediately due to landowner concerns. Land reparations should be considered for improper segregating. Extra due-diligence will be needed during clean-up work.

Keitu Inspector: RJS

Inspection Report Submitted: 26 September 2016